

## APPENDIX "B"

### PANLABS LIGAND RECEPTOR ASSAY LIST:

Drug screening labs such as Panlabs and Novascreen provide a service to check the specificity of drug leads at different receptor targets. The list of radio ligand receptor binding assays is set forth below. This information can be found on the world wide web at:

<http://www.panlabs.com/prod/a-pharm-asy-1st0.html>

#### Radioligand Binding Assays

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Please note for this section:

- 10 Our standard procedure is to assay at the initial recommended concentration in duplicate; if active (50%), concentration responses are carried out to determine  $IC_{50} \pm SEM$ ... (n=34 tubes). Other testing options are listed below.
- 15 1)Primary Screening and Quantitative Analysis (active compounds only):  
IC<sub>50</sub>  $\pm$  SEM, K<sub>i</sub>, nH in Radioligand Binding Assays; IC<sub>50</sub>  $\pm$  SEM in Enzyme Assays, n=34 tubes per assay  
2)Primary Screening and Semi-Quantitative Analysis: (10-5M and confirmation; 10-6, 10-7, 10-8M), n=10 tubes per assay  
3)Three Point Primary Screen: (10-5, 10-7, 10-9M), n=6 tubes per assay  
20 4)Primary Screen Only: (10-5 M), n=2 tubes per assay

#### \$/Tube

- Adenosine  
A1 (rat) \$30  
A2A (rat) \$30  
25 A3 (human) \$50  
Uptake Transporter (guinea pig) \$40  
Adrenergic  
alpha1A (human) \$50  
alpha1B (rat) \$30  
30 alpha1, Non-Selective (rat) \$30  
alpha2A (human) \$50  
alpha2B (rat) \$30  
alpha2C (human) \$50  
alpha2, Non-Selective (rat) \$30  
35 beta1 (human) \$50  
beta2 (human) \$50  
beta3 (human) \$50  
beta, Non-Selective (rat) \$30

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Norepinephrine Transporter (rat) \$40

Angiotensin

AT1 (rabbit) \$40

AT2 (rabbit) \$40

5 Atrial Natriuretic Factor (guinea pig) \$30

Bombesin (rat) \$40

Bradykinin

B1 (human) \$50

B2 (guinea pig) \$40

10 Calcitonin (human) \$40

Calcitonin Gene Related Peptide (rat) \$40

Ca<sup>2+</sup> Channel

Type L, Benzothiazepine (rat) \$30

Type L, Dihydropyridine (rat) \$30

15 Type L, Phenylalkylamine (rat) \$30

Type N (rat) \$40

Cannabinoid

CB1 (human) \$50

CB2 (human) \$50

20 Cholecystokinin

CCKA (human) \$50

CCKB (human) \$50

Choline Transporter (rat) \$40

Dopamine

25 D1 (human) \$50

D2S (human) \$50

D3 (human) \$50

D4.2 (human) \$50

D4.4 (human) \$50

30 D4.7 (human) \$50

D5 (human) \$50

Transporter (rat) \$40

Endothelin

ETA (rat) \$40

35 ETB (human) \$50

Epidermal Growth Factor (human) \$40

Estrogen (bovine) \$40

GABA Transporter (rat) \$40

GABAA

40 Agonist Site (rat) \$30

Benzodiazepine, Central (rat) \$30

Benzodiazepine, Peripheral (rat) \$30

Chloride Channel, TBOB (rat) \$40

GABAB (rat) \$30

45 Galanin (rat) \$40

Glucocorticoid (human) \$40

Glutamate

AMPA (rat) \$30

Kainate (rat) \$30

- NMDA, Agonist Site (rat) \$30
- NMDA, Glycine Site (rat) \$30
- NMDA, Phencyclidine Site (rat) \$30
- Glutamate, NMDA, Polyamine Site (rat) \$30
- 5 Non-Selective (rat) \$30
- Glycine, Strychnine-Sensitive (rat) \$30
- Histamine
- H1, Central (guinea pig) \$30
- H1, Peripheral (guinea pig) \$30
- 10 H2 (guinea pig) \$30
- H3 (rat) \$30
- Imidazoline
- I2, Central (rat) \$30
- I2, Peripheral (rat) \$30
- 15 Inositol Trisphosphate, IP3 (rat) \$40
- Insulin (rat) \$40
- Interferon gamma (human) \$50
- Interleukin
- IL-1alpha (mouse) \$40
- 20 IL-2 (mouse) \$75
- IL-6 (human) \$40
- IL-8 (human) \$40
- Leukotriene
- B4 (human) \$40
- 25 D4 (guinea pig) \$40
- Melatonin, ML1 (chicken) \$40
- Monoamine Transporter (rabbit) \$40
- Muscarinic
- M1 (human) \$50
- 30 M2 (human) \$50
- M3 (human) \$50
- M4 (human) \$50
- M5 (human) \$50
- Non-Selective, Central (rat) \$30
- 35 Oxotremorine-M (rat) \$30
- Neurokinin
- NK1 (human) \$50
- NK2 (human) \$50
- Neuropeptide Y
- 40 Y1 (human) \$40
- Y2 (rabbit) \$40
- Neurotensin (mouse) \$40
- Nicotinic Acetylcholine, Central (rat) \$30
- Opiate
- 45 delta (guinea pig) \$30
- kappa (guinea pig) \$30
- mu (guinea pig) \$30
- Non-Selective (rat) \$30
- Phorbol Ester (mouse) \$30

Platelet Activating Factor (rabbit) \$30  
Platelet-Derived Growth Factor (mouse) \$50

Potassium Channel

[KA] (rat) \$30

5 [KATP] (hamster) \$30

[KV] (rat) \$40

[SKCa] (rat) \$40

Progesterone (bovine) \$40

Purinergic P2X (rabbit) \$30

10 Serotonin

5-HT1 (rat) \$30

5-HT1A (human) \$50

5-HT2 (rat) \$30

5-HT3 (rabbit) \$30

15 5-HT4 (guinea pig) \$30

5-HT6 (human) \$50

5-HT7 (human) \$50

Transporter (rat) \$40

Sigma

20 sigma 1 (guinea pig) \$30

sigma 2 (rat) \$30

Non-Selective (guinea pig) \$30

Sodium Channel, Site 2 (rat) \$40

Somatostatin (mouse) \$40

25 Testosterone (rat) \$40

Thromboxane A2 (rabbit) \$30

Thyrotropin Releasing Hormone (rat) \$40

Transforming Growth Factor-beta (mouse) \$40

Tumor Necrosis Factor TNF-alpha (human) \$40

30 Vasoactive Intestinal Peptide VIP1 (human) \$50

Vasopressin V1 (rat) \$40